Update: CDC Clinical Informatics Team Activities

Ms. Megan E. Sawchuk, MT(ASCP)

CLIAC Meeting

August 29, 2012

Atlanta, Georgia

Outline

- **Background**
- **Activities of CDC Clinical Informatics Team**
- **Speaker Introductions**
- **Questions for CLIAC Consideration**

Background

- ❑ **CLIAC September 2011**
  - Lab test report elements: The absence of some test report information in the EHR may result in patient safety issues
  - EHR implementation: Communication issues are important and barriers may exist to safe and effective use of laboratory information
  - Committee Recommendation: *"Implement a work group to outline the scope of issues related to communication of laboratory testing information and propose approaches to address these issues for discussion by CLIAC."*

CDC Clinical Informatics Team
Division of Laboratory Science & Standards

Team

- **Dr. Nancy Cornish**
- **Ms. MariBeth Gagnon**
- **Dr. Ira Lubin**
- **Ms. Anne Pollock**
- **Ms. Megan Sawchuk**
- **Ms. Yasmine Zavahir**

Leadership

- **Dr. Devery Howerton**
- **Ms. Elizabeth Weirich**
- **Ms. Nancy Anderson**
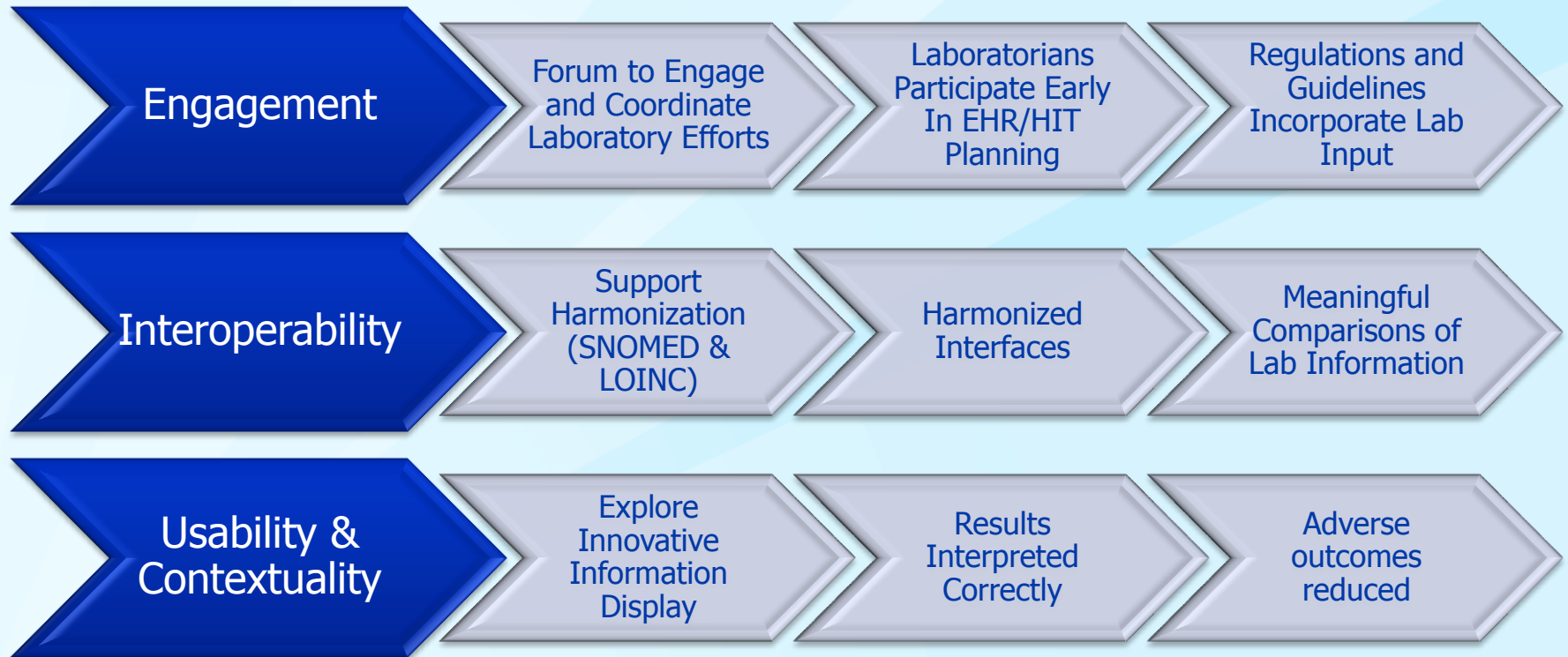- **Dr. Barbara Zehnbauer**

Emerging Regulatory Landscape

- **Office of the National Coordinator (ONC)**
  - EHR Standards and Certification
- **Centers for Medicare and Medicaid Services (CMS)**
  - Meaningful Use
  - Patients' Access to Test Reports
  - Accountable Care Measures
- **Office of Civil Rights (OCR)**
  - Privacy and Security
  - Patients' Access to Test Reports
- **Food and Drug Administration (FDA)**
  - Mobile Medical Apps Guidance
- **National Institute of Standards and Technology (NIST)**
  - Usability Guidance

VISION:

LABORATORY INFORMATION CONTRIBUTES TO OPTIMIZED HEALTHCARE DECISION MAKING.

Communication in Informatics Project

Logic Model

Engagement	Forum to Engage and Coordinate Laboratory Efforts	Laboratorians Participate Early In EHR/HIT Planning	Regulations and Guidelines Incorporate Lab Input
Interoperability	Support Harmonization (SNOMED & LOINC)	Harmonized Interfaces	Meaningful Comparisons of Lab Information
Usability & Contextuality	Explore Innovative Information Display	Results Interpreted Correctly	Adverse outcomes reduced

Team Activities

- **February:**
  - Formally joined CDC's Meaningful Use Advisory Group
- **March:**
  - Provided written comments to two proposed rules: ONC's 2014 EHR Certification and CMS' Meaningful Use Stage 2
- **April:**
  - Attended Standards & Interoperability Face-to-Face Meeting
- **May:**
  - Attended NIST Usability Conference
  - Committed division contact for Meaningful Use Technical Assistance (CDC support for public health laboratories implementing connectivity with healthcare organizations to achieve meaningful use objectives.)
  - Began research on white paper

Team Activities

❑ **June:**

  ❑ Held webinar orientation for Communication in Informatics Workgroup

  ❑ Held EHR Chat with CLIA Partners

  ❑ Attended Government Health IT Conference

  ❑ Supported nomination of laboratory professional on HIT Standards and Policy Committees

  ❑ Drafted concept white paper

*Association for Pathology Informatics (API): Held Strategic Summit in June

COMMUNICATIONS IN INFORMATICS WORKGROUP
Centers for Disease Control and Prevention, Atlanta Georgia
July 12, 2012

First Row (left to right): Dr. Alexis B. Carter, Ulrike "Riki" Merrick, Cindy Johns, Dr. Adam Cheriff, Joanna C. Baker, Suzanne Butch, Alvin Hoover
Second Row: Jon M. Lipsky, Dr. John Fontanesi, Timothy J. Ryan, Brent Steineckert, Dr. Joseph M. Campos, Dr. Michael S. Barr, Dr. Hardeep Singh, Dr. Shaman Singh
Not in Photo (by telephone): Dr. Mark Tuthill

Team Activities

❑ **July:**

    ❑ Convened Communication in Informatics Workgroup

    ❑ Reviewed prepublication versions of Meaningful Use Stage 2 rules

    ❑ Joined ONC's Laboratory Reporting Tiger Team

        Objective: Address verification of laboratory report content, reducing time and cost for implementation

❑ **August:**

    ❑ Began developing situational awareness web pages for laboratory outreach

    ❑ Participated in phone conference with CAP DIHIT-CGPA HIT Policy Workgroup

    ❑ Submitted written comments to AHRQ's Request for Information on Health IT-enabled quality measures

Other Team Activities

- **Continued support of CDC vocabulary efforts**
  - Public health initiative to develop cross mapping tables for notifiable diseases and SNOMED coding
  - PHIN Vocabulary and Messaging Community of Practice
- **Established liaison contacts with laboratory professional societies**
- **Identified clinical informatics activities relevant to other CDC initiatives for division leadership**
- **Working on communication plan**
- **Participating in CDC efforts to improve collaboration and alignment of public health and clinical informatics activities**

Standards & Interoperability Framework

❑ **Laboratory Results Interface (LRI)**

   ▪ Pilots
   ▪ Collaborating with NIST to populate Validation Tool used for EHR certification with <u>test report</u> requirements for compliance with CLIA, accrediting bodies, and deemed states

❑ **Laboratory Orders Interface (LOI)**

   ▪ Vocabulary
   ▪ Collaborating with NIST to populate Validation Tool used for EHR certification with <u>test request</u> requirements for compliance with CLIA, accrediting bodies, and deemed states

❑ **LOI/LRI CLIA Requirements**

❑ **electronic Directory of Service (eDOS)**

❑ **Health eDecisions (HeD)**

❑ **Query Health (QH)**

❑ **Transitions of Care (ToC)**

❑ **Automate Blue Button**

Upcoming Team Activities

- ❑ **Coordinate phone conference with professional societies to share status of EHR participation**
- ❑ **Support implementation of Laboratory Workgroup Tiger Team and recommendations approved by ONC**
- ❑ **Clinical Decision Support (CDS) Federal Collaboratory resuming**
- ❑ **November 2012: Meaningful Use Stage 3 Request for Comment**

CDC leadership is advocating long-term commitment and further collaboration

Introduction of Speakers

- **Dr. John Fontanesi**
  - Report from Communication in Informatics Workgroup
- **Ms. Karen Dyer**
  - CMS' participation on ONC's Direct Project
- **Mr. Robert Dieterle**
  - ONC's Laboratory Workgroup Tiger Team
- **Mr. Matt Quinn**
  - NIST Usability Framework
- **Dr. David Brick**
  - Usability Challenges with Pediatric EHRs

Questions for CLIAC Consideration

CDC Clinical Informatics Activities

Questions for CLIAC Consideration
CDC Clinical Informatics Activities

1. *How can CDC engage laboratory experts with practical HL7 knowledge to support its activities with the ONC's S&I Framework and the Laboratory Workgroup Tiger Team?*

2. *How can EHR vendors and software designers be educated on usability challenges associated with the presentation of laboratory information?*

3. *Within the existing federal framework, how can laboratory professionals and the CDC support improvements in the usability of laboratory information in the electronic health record?*

16

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Mailstop F-11, Atlanta, GA 30333
CLIA Information Line: 1-404-498-2290   TTY: 1-888-232-6348
E-mail: msawchuk@cdc.gov   Web: http://wwwn.cdc.gov/cliac/default.aspx

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.